

## ABSTRACT

A system is provided for communication and sensory monitoring. The system comprises a plurality of nodes installed as a network in a structure. Each of the plurality of nodes comprises an internode transceiver for wireless communication between nodes, a wireless network transceiver for wireless communication with one or more wireless devices, one or more sensors for monitoring the environment of the structure and a processor coupled to the internode transceiver, the wireless network transceiver and the one or more sensors to exchange data with the internode transceiver, the wireless network transceiver and the one or more sensors devices coupled to the processor and process the data. The system also includes a wide area network bridge coupled to the plurality of network nodes. The network bridge receives data from the plurality of network nodes and passes the information to a computer network for processing.